

Comparisons of Job Characteristics

Focus Occupation: [Engineering Technicians, Except Drafters, All Other \(17-3029\)](#)
Associated Occupation: [Electrical and Electronic Engineering Technicians \(17-3023\)](#)

[Compare Knowledge](#)
[Compare Skills](#)
[Compare Abilities](#)
[Compare Detailed Work Activities](#)
[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)
Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	15.8	16.2	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	12.4	17.6	>> Current knowledge level is likely more than sufficient
Mechanical	6.8	11.6	16.6	>> Current knowledge level is likely more than sufficient
Design	5.2	10.2	15.1	>> Current knowledge level is likely more than sufficient
Telecommunications	3.9	8.4	7.4	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)
Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Quality Control Analysis	5.9	8.8	11.5	>> Skill level is likely more than sufficient
Troubleshooting	4.5	8.8	10.6	> Skill level is likely sufficient
Repairing	3.4	8.0	9.4	> Skill level is likely sufficient
Equipment Maintenance	3.5	7.9	10.4	>> Skill level is likely more than sufficient
Equipment Selection	3.3	7.0	9.4	>> Skill level is likely more than sufficient
Technology Design	2.6	4.9	7.0	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 96			
Focus Occupation: Engineering Technicians, Except Drafters, All Other (17-3029) Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	12.2	13.6	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	12.0	12.6	0	Current ability level may be sufficient
Written Comprehension	11.0	12.0	12.7	0	Current ability level may be sufficient
Near Vision	11.1	11.6	12.4	0	Current ability level may be sufficient
Oral Expression	12.4	11.6	12.7	0	Current ability level may be sufficient
Deductive Reasoning	10.6	11.1	12.9	>	Current ability level is likely sufficient
Information Ordering	9.9	11.0	12.0	0	Current ability level may be sufficient
Written Expression	9.8	10.7	11.2	0	Current ability level may be sufficient
Finger Dexterity	7.6	9.9	10.0	0	Current ability level may be sufficient
Visualization	7.5	9.8	12.3	>	Current ability level is likely sufficient
Visual Color Discrimination	6.4	9.6	9.6	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 75
Focus Occupation: Engineering Technicians, Except Drafters, All Other (17-3029) Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)		
Tools and Technologies	Exclusivity	
Business function specific software	1	
Circuit assemblies and radio frequency RF components	40	
Computer data input devices	2	
Computer printers	2	
Computers	1	
Content authoring and editing software	1	
Content management software	6	
Cutting and crimping and punching tools	3	
Data management and query software	1	
Development software	4	
Electrical hardware and supplies	47	
Electrical measuring and testing equipment	7	
Electronic and communication measuring and testing instruments	14	

Face and head protection	7
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Integrated circuits	18
Light and wave generating and measuring equipment	4
Machine tools	7
Mechanical instruments	14
Network applications software	1
Operating environment software	12
Power conditioning equipment	33
Power generators	16
Power tools	2
Soldering and brazing and welding machinery and supplies	6
Transportation related equipment and instruments	29
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.